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1 An architecture to support scalable online personalization on the Web   ■
Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B. Navathe
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: 🔁 pdf(167.25 KB)   Additional Information: full citation, abstract, citings, index terms

Online personalization is of great interest to e-companies. Virtually all personalization technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

2 Towards a taxonomy of software connectors   ▬
◈ Nikunj R. Mehta, Nenad Medvidovic, Sandeep Phadke
June 2000 **Proceedings of the 22nd international conference on Software engineering**
Publisher: ACM Press
Full text available: 🔁 pdf(184.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...

Keywords: classification, software architecture, software connector, taxonomy

3 Papers from the 2003 international conference on Database theory: Processing XML

streams with deterministic automata and stream indexes
Todd J. Green, Ashish Gupta, Gerome Miklau, Makoto Onizuka, Dan Suciu
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(717.00 KB)   Additional Information: full citation, abstract, references, index terms

We consider the problem of evaluating a large number of XPath expressions on a stream of XML packets. We contribute two novel techniques. The first is to use a single Deterministic Finite Automaton (DFA). The contribution here is to show that the DFA can be used effectively for this problem: in our experiments we achieve a constant throughput, independently of the number of XPath expressions. The major issue is the size of the DFA, which, in theory, can be exponential in the number of XPath expr ...

Keywords: XML processing, stream processing

4 Collaborative proxy system for distributed Web content transcoding
Valeria Cardellini, Philip S. Yu, Yun-Wu Huang
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(251.02 KB)   Additional Information: full citation, references, citings, index terms

5 Aurora: a new model and architecture for data stream management
Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon Lee, Michael Stonebraker, Nesime Tatbul, Stan Zdonik
August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(585.97 KB)   Additional Information: full citation, abstract, citings, index terms

Abstract.This paper describes the basic processing model and architecture of Aurora, a new system to manage data streams for monitoring applications. Monitoring applications differ substantially from conventional business data processing. The fact that a software system must process and react to continual inputs from many sources (e.g., sensors) rather than from human operators requires one to rethink the fundamental architecture of a DBMS for this application area. In this paper, we present Aur ...

Keywords: Continuous queries, Data stream management, Database triggers, Quality-of-service, Real-time systems

6 Vinci: a service-oriented architecture for rapid development of web applications
Rakesh Agrawal, Roberto J. Bayardo, Daniel Gruhl, Spiros Papadimitriou
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(472.82 KB)   Additional Information: full citation, references, citings, index terms

7 Toward a model of self-administering data
ByungHoon Kang, Robert Wilensky0
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: 📄 pdf(308.08 KB)   Additional Information: full citation, abstract, references, index terms

We describe a model of self-administering data. In this model, a declarative description of how a data object should behave is attached to the object, either by a user or by a data input device. A widespread infrastructure of self-administering data handlers is presumed to exist; these handlers are responsible for carrying out the specifications attached to the data. Typically, the specifications express how and to whom the data should be transferred, how it should be incorporated when it i ...

Keywords: asynchonous collaboration, data access model, data management, distributed file system, file sharing, peer to peer, scalable update propagation, self-administering data

8 Archetypal architectures: Parametric polymorphism for software component architectures

Cosmin E. Oancea, Stephen M. Watt

October 2005 **Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming systems languages and applications OOPSLA '05**

Publisher: ACM Press

Full text available: 📄 pdf(375.78 KB)   Additional Information: full citation, abstract, references, index terms

Parametric polymorphism has become a common feature of mainstream programming languages, but software component architectures have lagged behind and do not support it. We examine the problem of providing parametric polymorphism with components combined from different programming languages. We have investigated how to resolve different binding times and parametrization semantics in a range of representative languages and have identified a common ground that can be suitably mapped to different lan ...

Keywords: antiunification, generics, parametric polymorphism, software component architecture, templates

9 Resource partitioning in general purpose operating systems: experimental results in Windows NT

D. G. Waddington, D. Hutchison

October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(1.56 MB)   Additional Information: full citation, abstract, index terms

The principal role of the operating system is that of resource management. Its task is to present a set of appropriate services to the applications and users it supports. Traditionally, general-purpose operating systems, including Windows NT, federate resource sharing in a fair manner, with the predominant goal of efficient resource utilisation. As a result the chosen scheduling algorithms are not suited to applications that have stringent Quality-of-Service (QoS) and resource management require ...

10 Demonstration session 2: Comprehensive treatment of adaptation in distributed multimedia systems in the ADMITS project

László Böszörményi, Mario Döller, Hermann Hellwagner, Harald Kosch, Mulugeta Libsie, Peter Schojer

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: 📄 pdf(81.58 KB)   Additional Information: full citation, references, citings

11 Managing server energy and operational costs in hosting centers

Yiyu Chen, Amitayu Das, Wubi Qin, Anand Sivasubramaniam, Qian Wang, Natarajan Gautam
June 2005 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '05**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(294.06 KB)   Additional Information: full citation, abstract, references, index terms

The growing cost of tuning and managing computer systems is leading to out-sourcing of commercial services to hosting centers. These centers provision thousands of dense servers within a relatively small real-estate in order to host the applications/services of different customers who may have been assured by a service-level agreement (SLA). Power consumption of these servers is becoming a serious concern in the design and operation of the hosting centers. The effects of high power consumption m ...

Keywords: energy management, feedback control, performance modeling, server provisioning

12 Performance modeling from software components

Xiuping Wu, Murray Woodside
January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, references, index terms

When software products are assembled from pre-defined components, performance prediction should be based on the components also. This supports rapid model-building, using previously calibrated sub-models or "performance components", in sync with the construction of the product. The specification of a performance component must be tied closely to the software component specification, but it also includes performance related parameters (describing workload characteristics and demands), and it abst ...

Keywords: CBML, LQN, generative programming, layered queue model, performance prediction, software component, software performance, submodel

13 Articles: MPEG-7 and multimedia database systems

Harald Kosch
June 2002 **ACM SIGMOD Record**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: pdf(747.12 KB)   Additional Information: full citation, abstract, references, citings

The Multimedia Description Standard MPEG-7 is an International Standard since February 2002. It defines a huge set of description classes for multimedia content, for its creation and its communication. This article investigates what MPEG-7 means to Multimedia Database Systems (MMDBSs) and vice versa. We argue that MPEG-7 has to be considered complementary to, rather than competing with, data models employed in MMDBSs. Finally we show by an example scenario how these technologies can reasonably c ...

14 Document management: Strategies for document optimization in digital publishing

Felipe Rech Meneguzzi, Leonardo Luceiro Meirelles, Fernando Tarlá Martins Mano, Joao Batista de Souza Oliveira, Ana Cristina Benso da Silva
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(421.60 KB)   Additional Information: full citation, abstract, references, index terms

Recent advances in digital press technology have enabled the creation of high-quality personalized documents, with the potential of generating an entire batch of one-of-a-kind documents. Even though digital presses are capable of printing such document sets as fast as they would print regular press jobs, raster image processing might possibly be performed for every different page in the job. Such process demands a large computational effort and it is therefore interesting to gather repeated i ...

Keywords: PPML, digital press, personalized printing, variable data printing, variable information documents

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15 Design and implementation of a distributed virtual machine for networked computers

Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

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16 Features: Self-healing in modern operating systems

Michael W. Shapiro

December 2004 **Queue**, Volume 2 Issue 9

Publisher: ACM Press

Full text available: pdf(872.84 KB)
html(32.65 KB)   Additional Information: full citation, abstract, references, index terms

A few early steps show there's a long (and bumpy) road ahead.

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17 VARIATIONS: a digital music library system at Indiana University

Jon W. Dunn, Constance A. Mayer

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(122.41 KB)   Additional Information: full citation, references, citings, index terms

Keywords: digital audio, digital libraries, music libraries

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18 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB)   Additional Information: full citation, index terms

19 An innovative design approach to build virtual environment systems

M. Oliveira, J. Crowcroft, M. Slater
May 2003 **Proceedings of the workshop on Virtual environments 2003 EGVE '03**
Publisher: ACM Press
Full text available: pdf(781.01 KB) Additional Information: full citation, abstract, references, index terms

A Virtual Environment (VE) presents a complex problem with interesting non-trivial challenges for software development. The majority of existing systems supporting VE are based on monolithic architectures, making maintenance and software reuse difficult at best. When a novel concept or idea requires implementation, it is not possible to extend an existing system by replacing or incrementing the necessary functionality. This leads to a proliferation of VE systems.This paper identifies some of the ...

Keywords: component frameworks, java, online games, system design, virtual environments, virtual reality

20 Content-triggered trust negotiation

Adam Hess, Jason Holt, Jared Jacobson, Kent E. Seamons
August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7
Issue 3
Publisher: ACM Press
Full text available: pdf(815.36 KB) Additional Information: full citation, abstract, references, index terms

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources is usually static, and an access control policy associated with each resource specifies who is authorized to access the resource. In this article, we turn the traditional client/server access control model on its head and address how to protect the sensitive content that clients disclose to and r ...

Keywords: Trust negotiation, access control, authentication, credentials

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